

Form PTO-1449 (modified)

Atty. Docket No.
4100.001000/DWHSerial No.
09/389,435 10/796,782

List of Patents and Publications for Applicant's
INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Applicants
George J. Brewer, Sofia D. Merajver, Nathan Ockwig
and Dimitri CoucouvanisFiling Date:
September 3, 1999 Group:
1643-1623U.S. Patent Documents
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Foreign Patent Documents

Other Art
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
LCM	A1	4,762,705	08/09/88	Rubin	424	85	03/29/84
LCM	A2	5,057,302	10/15/91	Johnson <i>et al.</i>	424	1.1	01/04/88
LCM	A3	5,100,885	03/31/92	Abrams <i>et al.</i>	514	184	08/01/89
LCM	A4	5,169,858	12/08/92	Rubin	514	365	02/26/86
LCM	A5	5,385,933	01/31/95	Rabinovitz <i>et al.</i>	514	499	06/19/92
LCM	A6	5,563,132	10/08/96	Bodenass	514	185	06/21/94

Foreign Patent Documents

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LCM	C1	Allen and Solomons, "Normal intestinal mechanisms in the absorption of copper," In: <i>Absorption and Malabsorption of Mineral Nutrients</i> , Solomons and Rosenberg, Eds., Alan R. Liss, Inc., New York, 12:199-229, 1984.
LCM	C2	Alpern-Eiran and Brem, "Angiogenesis in human brain tumors: inhibition by copper depletion," <i>Neurological Surgery</i> , pp. 498-500, publication date unknown.
LCM	C3	Brem <i>et al.</i> , "Anticopper treatment inhibits pseudopodial protrusion and the invasive spread of 9L gliosarcoma cells in the rat brain," <i>Neurosurgery</i> , 26:391-396, 1990.

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LCM	C4	Brem <i>et al.</i> , "Inhibition of angiogenesis and tumor growth in the brain. Suppression of endothelial cell turnover by penicillamine and the depletion of copper, an angiogenic colactor," <i>Am. J. Pathol.</i> , 137(5):1121-1142, 1990.
LCM	C5	Brem <i>et al.</i> , "Tetrathiomolybdate, a chelator of copper, reduces intracerebral peritumoral edema in rats," <i>Proceeding of the American Association for Cancer Research</i> , 33:76, Abstract 455, 1992.
LCM	C6	Bremner <i>et al.</i> , "Copper metabolism in rats given di- or trithiomolybdates," <i>J. Inorg. Biochem.</i> , 16: 109, 1982.
LCM	C7	Brewer and Yuzbasiyan-Gurkan, "Wilson Disease," <i>Medicine</i> , 71(3):139-164, 1992.
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LCM	C9	Brewer and Yuzbasiyan-Gurkan, "Wilson's disease: an update, with emphasis on new approaches to treatment," <i>Dig. Dis.</i> , 7(4):178-193, 1989.
LCM	C10	Brewer, "Interactions of zinc and molybdenum with copper in therapy of Wilson's disease," <i>Nutr.</i> , 11(1 Suppl):114-116, 1995.
LCM	C11	Brewer, "Practical recommendations and new therapies for Wilson's disease," <i>Drugs</i> , 50(2):240-249, 1995.
LCM	C12	Brewer, "Thiomolybdates in the treatment of Wilson's disease," <i>Arch. Neurol.</i> , 49: 132-133, 1992.
LCM	C13	Brewer, "Zinc in the Treatment of Wilson's Disease," <i>Nutrition and the M.D.</i> 19(12): 1993.
LCM	C14	Brewer <i>et al.</i> , "Treatment of Wilson's disease with ammonium tetrathiomolybdate. I Initial therapy in 17 neurologically affected patients," <i>Arch. Neurol.</i> , 51(6):545-554, 1994.

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LCM	C15	Brewer <i>et al.</i> , "Use of zinc acetate to treat copper toxicosis in dogs," <i>JAVMA</i> 201:564-568, 1992.
LCM	C16	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with zinc XIII: Therapy with zinc in presymptomatic patients from the time of diagnosis," <i>J. Lab. Clin. Med.</i> , 123:849-858, 1994.
LCM	C17	Brewer <i>et al.</i> , "Initial therapy of Wilson's Disease patients with tetrathiomolybdate," <i>Arch. Neurol.</i> , 48(1):42-47, 1991.
LCM	C18	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with zinc III. Prevention of reaccumulation of hepatic copper," <i>J. Lab. Clin. Med.</i> , 109:526-531, 1987.
LCM	C19	Brewer <i>et al.</i> , "Oral zinc therapy for Wilson's disease," <i>Annals Int. Med.</i> , 99:314-320, 1983.
LCM	C20	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with zinc: IV. Efficacy monitoring using urine and plasma copper," <i>Proc. Soc. Exper. Biol. Med.</i> , 184:446-455, 1987.
LCM	C21	Brewer <i>et al.</i> , "Treatment of Wilson's disease with ammonium tetrathiomolybdate II. Initial therapy in 33 neurologically affected patients and follow-up on zinc therapy," <i>Arch. Neurol.</i> , 53:1017-1025, 1996.
LCM	C22	Brewer <i>et al.</i> , "The use of ⁶⁴ copper measurements to diagnose canine copper toxicosis," <i>J. Vet. Int. Med.</i> , 6:41-43, 1992.
LCM	C23	Brewer <i>et al.</i> , "Worsening of neurological syndrome upon initial treatment of Wilson's Disease patients with penicillamine," <i>Arch. Neurol.</i> , 44:490-493, 1987.
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LCM	C25	Brewer <i>et al.</i> , "Zinc therapy of Wilson's Disease VIII. Dose response studies," <i>J. Trace Elem. Exp. Med.</i> , 3:227-234, 1990.
LCM	C26	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with zinc: IX. Response of serum lipids," <i>J. Lab. Clin. Med.</i> , 118:466-470, 1991.
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LCM	C30	Brewer <i>et al.</i> , "Treatment of Wilson's Disease with zinc VI. Initial treatment studies," <i>J. Lab. Clin. Med.</i> , 114: 633-638, 1989.
LCM	C31	Brewer <i>et al.</i> , "Treatment of Wilson's Disease," <i>Sem. Neurol.</i> , 7:209-220, 1987.
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LCM	C35	Coucouvanis <i>et al.</i> , "Successful isolation of a reduced tetrathiometallate complex. Synthesis and structural characterization of the $[(\text{MoS}_4)_2\text{Fe}]^{3-}$ trianion," <i>J. Am. Chem. Soc.</i> , 102:6644-6646, 1980.
LCM	C36	Coucouvanis <i>et al.</i> , "Synthesis and structural characterization of $[(\text{NO})_2\text{FeS}_2\text{MoS}_2]^{2-}$ a dinitrosyl complex containing the FeS_2MoS_2 core," <i>Inorg. Chim. Acta</i> , 53:L135-L137, 1981.
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LCM	C38	Coucouvanis <i>et al.</i> , "Trinuclear Fe-M-S complexes containing a linear Fe-M-Fe array and a bridging S ₂ M ₂ S ₂ unit. Electronic structures and crystal and molecular structures of the $[(\text{C}_6\text{H}_5)_4\text{P}]_2[\text{Cl}_2\text{FeS}_2\text{MS}_2\text{FeCl}_2]$ (M = Mo, W) complexes," <i>Inorg. Chem.</i> , 23:741-749, 1984.
LCM	C39	Coucouvanis, "Fe-M-S complexes derived from MS_4^{2-} anions (M = Mo, W) and their possible relevance as analogues for structural features in the Mo site of nitrogenase," <i>Acc. Chem. Res.</i> , 14:201-209, 1981.
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LCM	C41	Engleka and Maciag, "Inactivation of human fibroblast growth factor-1 (FGF-1) activity by interaction with copper ions involves FGF-1 dimer formation induced by copper-catalyzed oxidation," <i>J. Biol. Chem.</i> , 267:11307-11315, 1994.
LCM	C42	Fell <i>et al.</i> , "Gut Pathology of Rats Dosed with Tetrathiomolybdate," <i>J. Comp. Pathol.</i> , 89:495, 1979.

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LCM	C44	Folkman and Klagsbrun, "Angiogenic factors," <i>Science</i> , 23:442-447, 1987.
LCM	C45	Folkman, "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nature Med.</i> , 1:27-31, 1995.
LCM	C46	Folkman, "The influence of angiogenesis research on management of patients with breast cancer," <i>Breast Cancer Res. Treat.</i> , 36(2):109-118, 1995.
LCM	C47	Folkman, "Antiangiogenic therapy," In: <i>Cancer: Principles and Practice of Oncology</i> , Lippincott-Raven Publishers, pp. 3075-3085, 1997.
LCM	C48	Gooneratne <i>et al.</i> , "An investigation of the effects of intravenous administration of thiomolybdate on copper metabolism in chronic Cu-poisoned sheep," <i>Br. J. Nutr.</i> , 46:469, 1981.
LCM	C49	Gooneratne <i>et al.</i> , "Intravenous administration of thiomolybdate for the prevention and treatment of chronic copper poisoning in sheep," <i>Br. J. Nutr.</i> , 46:457, 1981.
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LCM	C52	Hadjikyriacou and Coucouvanis, "New members of the $[Mo_2(S)_n(S_2)_{6-n}]^{2-}$ series. Synthesis, structural characterization, and properties of the $[Mo_2S_9]^{2-}$, $[Mo_2S_7]^{2-}$ and $[Mo_2S_6]^{2-}$ thioanions," <i>Inorg. Chem.</i> , 26:2400-2408, 1987.
LCM	C53	Hill <i>et al.</i> , "Treatment of Wilson's Disease with Zinc II. Validation of Oral ^{64}Cu Uptake with Copper Balance," <i>Am. J. Med. Sci.</i> , 12:344, 1986.

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LCM	C54	Hill <i>et al.</i> , "Treatment of Wilson's disease with zinc, I: oral zinc therapy regimens," <i>Hepatology</i> , 7:522-528, 1987.
LCM	C55	Hourani and Demopoulos, "Inhibition of S-91 mouse melanoma metastases and growth by D-penicillamine," <i>Laboratory Investigation</i> , 21(5):434-438, 1969.
LCM	C56	Kanatzidis and Coucouvanis, "Structure of Bis(tetraethylammonium) tetrathiomolybdite(VI), $2\text{C}_8\text{H}_{20}\text{N}^+\text{MoS}_4^{2-}$," <i>Acta Cryst.</i> , C39:835-838, 1983.
LCM	C57	Lee <i>et al.</i> , "The Treatment of Wilson's Disease with Zinc VII. Protection of the Liver for Copper Toxicity by Zinc Induced Metallothionein in a Rat Model," <i>J. Lab. Clin. Med.</i> , 114:639-645, 1989.
LCM	C58	Marshall <i>et al.</i> , "Phase I trial of orally administered pentosan polysulfate in patients with advanced cancer," <i>Clin. Cancer Res.</i> , 3:2347-2354, 1997.
LCM	C59	Merajver <i>et al.</i> , "Copper depletion as an anti-angiogenic strategy in HER2-neu transgenic mice," <i>Proceedings of Special AACR Conference on Angiogenesis and Cancer</i> , Abstract #B-11, January 22-24, 1998.
LCM	C60	Merajver, "Phase I study of tetrathiomolybdate in metastatic cancer," NIH Grant No. 5R03CA77122-02.
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LCM	C62	Mills <i>et al.</i> , "Copper and molybdenum absorption by rats given ammonium tetrathiomolybdate," <i>J. Inorg. Biochem.</i> , 14: 163, 1981.
LCM	C63	Parke <i>et al.</i> , "Characterization and quantification of copper sulfate-induced vascularization of the rabbit cornea," <i>Am. J. Pathol.</i> , 130:173-178, 1988.
LCM	C64	Patstone and Maher, "Copper and calcium binding motifs in the extracellular domains of fibroblast growth factor receptors," <i>J. Biol. Chem.</i> , 271:3343-3346, 1996.

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LCM	C68	Shing, "Heparin-copper biaffinity chromatography of fibroblast growth factors," <i>J. Biol. Chem.</i> , 263:9059-9062, 1988.
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LCM	C72	Yuzbasiyan-Gurkan <i>et al.</i> , "Treatment of Wilson's Disease with Zinc V. Changes in Serum Levels of Lipase, Amylase and Alkaline Phosphatase in Wilson's Disease Patients," <i>J. Lab. Clin. Med.</i> , 114:520-526, 1989.
LCM	C73	Yuzbasiyan-Gurkan <i>et al.</i> , "The Treatment of Wilson's Disease with Zinc X. Intestinal Metallothionein Induction," <i>J. Lab. Clin. Med.</i> , 120:380-386, 1992.
LCM	C74	Zagzag, "The effects of copper depletion on intracerebral angiogenesis and growth of experimental brain tumors," <i>Dissertation Abstracts International</i> , 53(12B):6160, 1988.

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Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
LCM	C76	Brem "Angiogenesis and cancer control: From concept to therapeutic trial," <i>Cancer Control</i> , 6(5):436-458, 1999.
LCM	C77	Brewer and Merajver, "Treatment of metastatic cancer with the anticopper antiangiogenic drug tetrathiomolybdate," <i>J. Invest. Med.</i> , 47(7):223A, 1999.
LCM	C78	Brewer <i>et al.</i> , "Treatment of metastatic cancer with tetrathiomolybdate, an anticopper, antiangiogenic agent: Phase I study," <i>Clin. Canc. Res.</i> , 6(1):1-10, 2000.
LCM	C79	International Search Report dated July 4, 2000 (PCT/US99/20374; 4100.001010).
LCM	C80	Merajver, "A Phase I study of oral tetrathiomolybdate (TM) as a decoppering and anti-angiogenesis agent for metastatic cancer," From the Internet at website http://www.cancer.med.umich.edu/cgi-bin/protocol?9708_701 , 1998.
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EXAMINER: Leigh C. Maier

DATE CONSIDERED: 4-22-05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No. 4100.001000	Serial No. 09/389,435 10/796,782
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants George J. Brewer, Sofia D. Merajver and Dimitri Coucouvanis	
		Filing Date: September 3, 1999	Group: 1623
U.S. Patent Documents <i>See Pages 1</i>	Foreign Patent Documents <i>See Pages</i>	Other Art <i>See Pages</i>	

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
LCM	A7	5,697,902	December 16, 1997	Goldenberg	604	49	
LCM	A8	5,565,491	October 15, 1996	Schieven	514	492	
LCM	A9	5,512,559	April 30, 1996	Skalkos <i>et al.</i>	514	185	
LCM	A10	5,443,816	August 22, 1995	Zamora <i>et al.</i>	424	1.69	
LCM	A11	5,391,547	February 21, 1995	Cole <i>et al.</i>	514	184	
LCM	A12	4,952,607	August 28, 1990	Sorenson <i>et al.</i>	514	589	
LCM	A13	4,766,226	August 23, 1988	Hill <i>et al.</i>	556	18	
LCM	A14	4,678,667	July 7, 1987	Meares <i>et al.</i>	424	85	
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Form PTO-1449 (modified)

Atty. Docket No.
4100.001099Serial No.
10/796,782

List of Patents and Publications for Applicant's

Applicant
Brewer *et al.*

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LCM	A17	5,527,533	06/18/96	Tso <i>et al.</i>	424	422	
LCM	A18	5,556,611	09/17/96	Biesalski	424	46	
LCM	A19	5,583,153	12/10/96	Brahn	514	449	
LCM	A20	5,970,974	10/26/99	Van der Linden <i>et al.</i>	128	200.16	
LCM	A21	5,954,047	09/21/99	Armer <i>et al.</i>	128	200.23	
LCM	A22	5,950,619	09/14/99	van der Linden <i>et al.</i>	128	200.16	
LCM	A23	5,698,155	12/16/97	Grosswald <i>et al.</i>	264	402	
LCM	A24	5,639,725	06/17/97	O'Reilly <i>et al.</i>	514	12	
LCM	A25	4,765,539	08/23/88	Noakes <i>et al.</i>	239	3	
LCM	A26	3,916,899	11/04/75	Theeuwes <i>et al.</i>	128	121	
LCM	A27	3,845,770	11/05/74	Theeuwes <i>et al.</i>	128	260	
LCM	A28	4,604,278	08/05/86	Reilly <i>et al.</i>	423	817	
LCM	A29	4,343,746	08/10/82	Anglin <i>et al.</i>	556	57	
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LCM	A33	5,712,291	Jan. 27, 1998	D'Amato	514	323	
LCM	A34	5,753,230	May 19, 1998	Brooks <i>et al.</i>	424	158.1	
LCM	A35	5,972,922	Oct. 26, 1999	Wilks <i>et al.</i>	514	178	

EXAMINER: Leigh C. Mair

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Form PTO-1449 (modified)		Atty. Docket No. 4100.001099	Serial No. 10/796,782
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brewer <i>et al.</i>	
		Filing Date: March 09, 2004	Group: 1616 1623
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
LCM	A36	2004/0009237 A1	Jan. 15, 2004	Brewer	424	617	

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LCM	B1	EP 1 107 795 B1	Nov. 27, 2002	EP			
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LCM	B3	WO 00/13712	Mar. 16, 2000	PCT			
LCM	B4	WO 2004/009072	Jan. 29, 2004	PCT			

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LCM	C86	Malavé <i>et al.</i> , "Influence of Inoculation Site on Development of the Lewis Lung Carcinoma and Suppressor Cell Activity in Syngenic Mice," <i>J. Natl. Cancer Inst.</i> , 62(1):83-88, 1979.
LCM	C87	Passaniti <i>et al.</i> , "Methods in Laboratory Investigation," <i>Laboratory Investigation</i> , 67(4):519-528, 1992.
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List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brewer <i>et al.</i>	
		Filing Date: March 09, 2004	Group: 1616-1623
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LCM	C101	During <i>et al.</i> , "Controlled Release of Dopamine from a Polymeric Brain Implant; In vivo Characterization," <i>Ann. Neurol.</i> , 25:351-356, 1989.
LCM	C102	Folkman, "Anti-Angiogenesis: New Concept for Therapy of Solid Tumors," <i>Ann. Surg.</i> , 175: 409-416, 1972.
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List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brewer <i>et al.</i>	
		Filing Date: March 09, 2004	Group: -1616 1623
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		Filing Date: March 09, 2004	Group: 1616-1623
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LCM	C121	Malave <i>et al.</i> , "Influence of Inoculation Site on Development of the Lewis Lung Carcinoma and Suppressor Cell Activity in Syngeneic Mice," <i>J. Nat'l. Cancer Inst.</i> , 62:83-88, 1979.
LCM	C122	Mandinov <i>et al.</i> , "Copper Chelation Represses the Vascular Response To Injury" <i>PNAS</i> , 100:6700-6705, 2003.
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LCM	C128	Odenda <i>et al.</i> , "Low Molecular Weight Angiogenesis Factors," <i>Pharmac. Ther.</i> , 49:111-124, 1991.
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LCM	C138	Rupnick <i>et al.</i> , "Adipose Tissue Mass Can Be Regulated Through the Vasculature," <i>Proc. Natl. Acad. Sci.</i> , 99:10730-10735, 2002.
LCM	C139	Saudek <i>et al.</i> , "A Preliminary Trial of the Programmable Implantable Medication System for Insulin Delivery," <i>N. Engl. J. Med.</i> , 321:574, 1989.
LCM	C140	Schnaper <i>et al.</i> , "Plasminogen Activators Augment Endothelial Cell Organization <i>In Vitro</i> by Two Distinct Pathways," <i>J. Cell. Physiol.</i> , 165:107-118, 1995.
LCM	C141	Sefton, "Implantable Pumps," <i>CRC Crit. Rev. Biomed. Eng.</i> , 14(3):201-240, 1987.
LCM	C142	Sen <i>et al.</i> , "Copper-Induced Vascular Endothelial Growth Factor Expression and Wound Healing," <i>Am. J. Physiol. Heart Circ. Physiol.</i> , 282:H1821-H1827, 2002.
LCM	C143	Shockley <i>et al.</i> , "Penetration of Tumor Tissue by Antibodies and Other Immunoproteins," <i>Ann. N.Y. Acad. Sci.</i> , 617:367-382, 1991.
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LCM	C146	Thakur <i>et al.</i> , "Indium-111-Labeled Leukocytes for the Localization of Abscesses: Preparation, Analysis, Tissue Distribution, and Comparison with Gallium-67 Citrate in Dogs," <i>J. Lab. Clin. Med.</i> , 89:217-228, 1977.
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DATE CONSIDERED: 4-22-05

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